

# Quick Status Update

Alex Jentsch

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# Where are we now?

- Most of the kinematic variables from Kong's previous study calculated in the full simulations (need to double check calculation on one or two).
- Addition of smearing effects to be implemented as follows
  - Crab rotation – implemented via vertex smearing.
  - Detector effects – finite silicon pixel size for protons; “hand” smearing of energy for neutrons in ZDC (real ZDC not implemented).
  - Angular divergence + beam momentum spread – still discussing, but we think we have a solution to do this properly.
- For Temple: Will have results for the full detector acceptance study for all variables, and at least smearing from crab rotation for 2 beam energy configuration.